"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBENFLIEGEL, W.; WAJDA, Z.; LEWINSKI, A.

Determination of the condition of vascularization of pedicle skin grafts (Gillies-Filatov) by the thermoelement. Acta chir. plast. (Praha) 7 no.3:236-240 '65.

1. The 3rd Surgical Clinic, Medical Academy, Gdansk (Poland) (Director: Prof. Zdzislaw Kieturakis M.D.).

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

KOZLOWSKI, W.; RACZYNSKI, S.; TAUBENFLIGEL, W.; KOSSAK, J.; LEWINSKI, A.; BANASIK, Z.

Experimental studies on the insertion of an electronic pacemaker of the heart of our construction in the dog. Preliminary communication. Kardiol. Pol. 8 no.2:125-128 '65.

1. Z III Kliniki Chorob Wewnetrznych (Kierownik: prof. dr. M. Garski) i z III Kliniki Chirurgicznej AM w Gdansku (Kierownik: prof. dr. Z. Kieturakis).

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

S/269/63/000/004/014/030
A001/A101

AUTHORS: Nestorov, G., Taubenheim, J.

TITLE: A criterion of determining ionization-recombination constants of the E ionospheric layer from observations made during a total solar eclipse

PERIODICAL: Referativnyy zhurnal, Astronomiya, no. 4, 1963, 59, abstract 4.51.455 ("Dokl. Bolg. AN", 1962, v. 15, no. 1, 25 - 28, German; Russian summary)

TEXT: The authors propose a method of interpreting ionospheric and radio astronomical observations during total solar eclipses. If there are n discrete radiation sources on the Sun, the total radiation will be as follows:

$$Q = pS_h + \sum_1^n \delta_i S_i,$$

where S_h is homogeneous radiation of the undisturbed solar disk; p is the magnitude (in per cent) of the disk uncovered part; $q = q/q_o$, where q and q_o are

Card 1/2

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A criterion of determining ionization-recombination...

ionizing radiation in the eclipse day and in control days. In case of two discrete sources, two instants can be chosen: one between the first and second contacts, and the other - between the third and fourth contacts, for which equations are derived. The solution of these equations, together with the ionization-recombination equation $dN/dt = q - dN^2$ and with the equation $S_h = dQ/dp$, increases the reliability of determining ionization-recombination constants and makes it possible to separate ionizing radiation of the homogeneous disk from ionization of discrete sources.

N. B.

[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

43444

S/169/62/000/011/075/077
D228/D307

9.9130

AUTHORS: Nestorov, G. and Taubenheim, J.

TITLE: Recombination factor and ionizing radiation sources for the E-layer during the total eclipse of February 15, 1961

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 11, 1962, 33-34, abstract 11G214 (Dokl. Bolg. AN, 15, no. 2, 1962, 131-134 (Ger.; summary in Rus.))

TEXT: The effective recombination factor of the E-layer ($\alpha_E = 1.10^{-7}$ cm^3 sec^{-1}), the relative ionizing radiation intensity of the sun's uniform disk ($S_\lambda = 0.57$), and the discrete sources of the sun's western ($S_1 = 0.26$) and eastern ($S_2 = 0.17$) edges were determined on the basis of analyzing the results of ionospheric and radio-astronomic observations during the total solar eclipse of February 15, 1961. During the total phase $q > 0$ and reaches ~ 20% of the total amount of radiation.

[Abstracter's note: Complete translation]

Card 1/1

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

S/203/63/003/002/011/027
D207/D307

AUTHORS: Nestorov, G. and Taubenheim, ~~Va.~~ J.

TITLE: Investigation of the E layer of the ionosphere during the solar eclipse of February 15, 1961

PERIODICAL: Geomagnetizm i aeronomiya, v. 3, no. 2, 1963, 277-283

TEXT: The effective ionospheric recombination coefficient and the distribution of sources of ionizing radiation of the sun's disk were determined simultaneously during the total eclipse of February 15, 1961. For this purpose the critical frequencies f_E of the normal E layer were calculated from measurements in Sofia and Nessebar in Bulgaria during this eclipse. The effective recombination coefficient in the E layer was found to be 10^{-7} cm/sec. This value was used to determine the dependence of the intensity of solar ionizing radiation on time during the eclipse: this dependence was almost exactly parallel to the simultaneously determined variation of the solar radio emission at $\lambda = 20$ cm. The results [illegible]

Card 1/2

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cate that 43% of the ionizing energy was emitted by two local regions on the eastern and western limbs of the solar disk near its equator. Acknowledgements are made to Doctor O. Khakhenberg for his interest and to Engineers G. Kober, L. Lange and K. Serafimov for carrying out ionospheric measurements and help in the analysis of ionograms. There are 4 figures and 1 table.

ASSOCIATION: Akademiya nauk Bolgarskoy narodnoy respubliki Academy of Sciences of the Bulgarian People's Republic) Institut Genrikha Gertsa, GDR (Heinrich Hertz Institute, East Germany)

SUBMITTED: September 12, 1962

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

NESTOROV, G.; TAUBENHEIM, J.

New experimental data on the accumulation microprocess in ionospheric D-region. Doklady BAN 16 no.6:605-607 '63.

1. Vorgelegt von Akademiemitglied L. Krastanov [Krustanov, L.].

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

SERAFIMOV, K.; TAUBENHEIM, J.

Quasiperiodic oscillations of electronic density in the F area of the ionosphere. Doklady BAN 16 no.7:709-712'63.

1. Vorgelegt van Akademiemitglied L.Krastanov [Krustanov,L.]; Chlen Redaktsionnoy kollegii i otvetstvennyy redaktor, "Doklady Bolgarskoy Akademii nauk".

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBENSHLAK, P.G., inzhener.

Apparatus for machine riveting. Strel. i der.mashinostr. 1 no.3:36 Mr '56. (MLRA 10:1)

(Rivets and riveting)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

YAROSLAVSKIY, A.M., inzhener; TAUBENSHLAK, P.G., inzhener.

Mechanization of fitting and assembly operations in manufacturing electric tools. Stroi. i dor. mashinostr. 2 no.5:25-31 My '57. (Electric machinery industry) (MIRA 10:6)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBENSHLAK, P.G., inzh.

Mechanizing assembly work in construction and road machinery plants. Stroi.i dor.mashinostr. 4 no.4:28-34 Ap '59. (MIRA 12:5)

(Assembly-line methods)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

RAYTSESS, A.M., inzh.; CHERVYAKOV, V.I., inzh.; TAUBENSHLAK, P.G.;

[Universal means for the mechanization of fitting and assembling operations]Universal'nye sredstva mekhanizatsii slesarnykh i slesarno-sborochnykh rabot. Moskva, Otdel tekhn. informatsii, 1962. 132 p. (MIRA 15:11)

1. Russia (1917- R.S.F.S.R.)Moskovskiy gorodskoy ekonomicheskiy administrativnyy rayon. Sovet narodnogo khozyaystva. 2. Otdel avtomatizatsii i mekhanizatsii slesarnykh i slesarno-sborochnykh rabot Moskovskogo gorodskogo soveta narodnogo khozyaystva (for Raytsess, Chervyakov). 3. Nachal'nik otdela avtomatizatsii i mekhanizatsii sborochnykh rabot Moskovskogo gorodskogo soveta narodnogo khozyaystva (for Taubenshlak).

(Machine-shop practice)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, A.

Some observations on State Standard 4907-55 "Industrial constructions. Rules for Static calculation of construction elements under the loads of electric traveling cranes," p. 118.
(Standardizarea, Vol. 9, No. 3, Mar. 1957, Bucuresti, Rumania)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, Arnost, dr.

Symposium on the scientific research in agriculture and forestry in underdeveloped countries. Vest ust zemedel 11 no. 7:271-275 Jl '64.

1. Institute of Scientific and Technological Information, Ministry of Agriculture, Forestry and Water Resources Management, Prague.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

KHAR'KOV, A.A., dots., otv. red.; RYVKIN, M.S., dots., red.; MERZLYAKOVA, Z.S., st. prepod., red.; PARSHUKOV, B.V., st. prepod., red.; TAUBER, A.I., st. prepod., red.

[Abstracts of reports of the Zonal Scientific and technological Conference of Teachers of Physics, Methodology of Physics, and General Technical Subjects in the Pedagogical Institutes of Siberia and the Ural Mountain Region] Tezisy dokladov Zonal'noy nauchno-tekhnicheskoy konferentsii prepodavateley fiziki, metodiki fiziki i obshchetekhnicheskikh distsiplin pedagogicheskikh institutov Sibiri i Urala. Novosibirks, Novosibirskii gos. pedagog. in-t, 1962. 167 p. (MIRA 16:11)

1. Zonal'naya nauchno-tekhnicheskaya konferentsiya prepodavateley fiziki, metodiki fiziki i obshchetekhnicheskikh distsiplin pedagogicheskikh institutov Sibiri i Urala. 5th, 1962.
(Physics--Study and teaching)
(Technical education)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, B. A. Docent PA 45/49T32

USSR/Engineering Mar 49
Welding, Autogenous
Locomotives

"Mechanization of Assembly-Welding Works," Docent B. A. Tauber, Cand Tech Sci, 1 p

"Avtogennoye Delo" No 3

Explains how Kolomensk Locomotive-Bldg Plant modified the USA-2 nozzle for use in a setup for automatic welding of Series L locomotive boilers.

[redacted]

45/49T32

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, B. A.

Sborochno-svarochnye prisposobleniia i mekhanizmy. Moskva, Mashgiz, 1951. 414 p. illus.
Bibliography: p. 413

Welding assembly jogs and mechanisms.

DLC: TS 227.T3

SO: Manufacturing and Mechanical Engineering in the Soviet Union. Library of Congress, 1953.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, B. A.

Hoisting and transporting machinery in the lumber industry; textbook Moskva, Goslesbumizdat, 1952. 532 p. (54-18974)

TJ1350.T38

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, B.A.

GATSKEVICH, V., inzhener.

Good textbook for schools of higher learning of the lumber industry ("Hoisting and transporting machinery in the lumber industry." [kandidat tekhnicheskikh nauk] B.A.Tauber. Reviewed by V.Gatskevich). Les.prom. 14 no.4:p.3 of cover. Ap '54. (MLRA 7:4)
(Lumbering--Machinery) (Tauber, B.A.)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, B. A., Doc Tech Sci -- (diss) "Bases of the Theory of Cable Grab Mechanisms." Mos, 1957. 42 pp with ill. (Min of Higher Education USSR, Mos Forestry Engineering Inst), 110 copies. List of author's works, p 42 (13 titles). (KL, 52-57, 106)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

SOV/124-58-5-5031

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 13 (USSR)

AUTHOR: Tauber, B.A.

TITLE: A Structural Investigation of Scoop-bucket Mechanisms (Strukturnoye issledovaniye greyfernykh mekhanizmov)

PERIODICAL: Nauchn. tr. Mosk. lesotekhn. in-t, 1957, Nr 7, pp 5-34

ABSTRACT: An examination is made of the structure of various types of scoop-bucket mechanisms. The investigative procedure adopted is that of replacing the flexible links of a mechanism by corresponding rigid links; this makes it possible to use the Assur method for the structural analysis of the mechanisms.

V.A. Zinov'yev

1. Dippers--Structural analysis 2. Dippers--Test methods
3. Mechanics

Card 1/1

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

SOV/124-58-5-5030

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 13 (USSR)

AUTHOR: Tauber, B.A.

TITLE: A Kinematic Investigation of Scoop-bucket Mechanisms (Kinematicheskoye issledovaniye greyfernykh mekhanizmov)

PERIODICAL: Nauchn. tr. Mosk. lesotekhn. in-t, 1957, Nr 7, pp 35-60

ABSTRACT: A method is expounded for plotting scooping curves for scoop buckets, taking into account the factors influencing the shape of the curves. The author deals also with the question of determining the respective velocities and accelerations of the links of a scoop-bucket linkage. The methods proposed are used to investigate the influence exerted by the shape of a scoop-bucket's jaws on its scooping action.

V.A. Zinov'yev

1. Dippers--Performance 2. Dynamics 3. Mechanics
4. Mathematics--Applications

Card 1/1

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, B.A., dots., kand.tekhn.nauk

Experimental investigation of vibration bucket hoists used for lifting long-sized lumber. Nauch.trudy MLTI no.7:119-138 '57. (MIRA 11:11)

(Lumbering--Machinery)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, B.A., kand.tekhn.nauk

Mechanizing loading at the lower landing. Mekh.trud.rab. 11 no.9:36-38 S '57. (MIRA 10:11)
(Lumbering) (Loading and unloading)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, B.A., kand.tekhn.nauk, dotsent.

Theory and design of cable grab mechanisms. Vest.mash. 37 no.10:3-12 O '57. (MIRA 10:11)
(Excavating machinery) (Mechanical movements)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, D. A.

AUTHOR: None Given SOV-118-58-7-7/20

TITLE: A Scientific-Technical Conference on Questions Regarding the Mechanization of the Lumber Industry (Nauchno-tekhnicheskaya konferentsiya po voprosam mekhanizatsii v lesnoy promyshlennosti)

PERIODICAL: Mekhanizatsiya trudoyëmkikh i tyazhëlykh rabot, 1958, Nr 7, p 19, (USSR)

ABSTRACT: In May 1958, the Moskovskiy lesotekhnicheskiy institut (the Moscow Institute of Forest Engineering) called a scientific conference. Attending were approximately 300 persons, among them representatives from the Gor'kovskiy (Gor'kiy), Kalininskiy (Kalinin), Kirovskiy (Kirov), Komi, Permskiy (Perm'), Tyumenskiy (Tyumen') and Moskovskiy (Moscow) sovnarkhozes. Also attending were delegates from big lumber enterprises, lumber mills, furniture factories; the Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta Ministrov SSSR (State Scientific Technical Committee of the USSR Council of Ministers), the USSR Gosplan, the TsNIIME, the TsNIIMOD, the Giprolesprom and from other organizations. The Member-Correspondent of the VASKhNIL, N.P. Anuchin reported on the future development of the Soviet lumber industry (1959 to 1965). The Chief Engineer of the Krestetskiy-lespromkhoz TsNIIME (the Kresttsy Lespromkhoz) reported on a semi-automatic conveyer line introduced at

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

A Scientific-Technical Conference on Questions Regarding the Mechanization of the Lumber Industry

the Krasttsy lespromkhoz. The Candidate of Technical Sciences, B.A. Tauber delivered a report on the mechanization of lumber loading and stacking operations. The following reports were also heard: Dotsent N.I. Suboch - "The Present State and Development Methods of Traction Machinery in Lumber Transportation"; Dotsent M.I. Saltykov - "The All-Round Utilization of Raw Material and the Organization of Lumber Industry on the Principle of Continuous Forest Use"; Candidate of Technical Sciences, G.A. Vil'ke - "The Vibration of Gasoline Motor Saws"; scientific worker, V.V. Kharitonov - "Choosing a Method of Bark Stripping"; Dotsent M.I. Kishinskiy - "The Transportation of Lumber by Motor Transport in Winter"; Professor M.I. Zaychik - "The Exploitation of Diesel Engines at Shops"; Professor N.N. Chulitskiy - "Investigations on New Technological Equipment for Production Line and Automated Furniture Production"; Head of the Tekhnologicheskiy otdel proyektnogo instituta Nr 2 (Technological Division of the Nr 2 Design - Institute), V.A.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

SOV-118-58-7-7/27

A Scientific-Technical Conference on Questions Regarding the Mechanization of the Lumber Industry

Tselebrovskiy - "Mechanization and Automation of Production Processes at the Raw Material Exchange Center of the Omutninsk House Construction Combine".

1. Lumber industry--USSR

Card 3/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, Boris Abramovich, prof., doktor tekhn.nauk; GORA, V.Ye., inzh., retsenzent; SYTNIK, N.A., inzh., red.; CHERNOVA, Z.I., tekhn.red.

[Grab mechanisms; theory, design, and construction] Greifernye mekhanizmy; teoriia, raschet i konstruktsii. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 326 p. (MIRA 13:11)

(Cranes, derricks, etc) (Excavating machinery)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, B.A., prof. doktor tekhn. nauk

Some problems in the kinematics and dynamics of grab mechanisms.
Nauch. trudy MLTI no.11:5-30 '61 (MIRA 18:1)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

MOVNIN, Mikhail Savel'yevich, doktor tekhn. nauk, prof.; MITINSKIY, Arsenii Nikolayevich, prof.[deceased]; prinyal uchastiye: GOL'TSIKER, D.G., inzh.; BORISOV, V.N., dotsent, kand. tekhn. nauk, retsenzent; SAMUYLLO, V.O., V.O.dots., retsenzent; TAUBER, B.A., prof., retsenzent; CHERNAVSKIY, S.A., dotsent, retsenzent; ITSKOVICH, G.M., inzh., nauchnyy red.; PITERMAN, Ye.L., red. izd-va; PARAKHINA, N.L., tekhn. red.

[Technical mechanics; strength of materials, theory of mechanisms and machines. Machine parts] Tekhnicheskaia mekhanika; soprotivlenie materialov; teoriia mekhanizmov i mashin. Detali mashin. Izd.2., perer. Moskva, Goslesbumizdat, 1961. 781 p. (MIRA 14:6)
(Mechanical engineering) (Strength of materials)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, Boris Abramovich, prof., doktor tekhn. nauk; FROLOV, A.V., retsenzent; MUSINYAN, T.M., red.; PROTANSKAYA, I.V., red. izd-va; VDOVINA, V.M., tekhn. red.

[Hoisting and conveying machines] Pod"emno-transportnye mashiny. 2. izd. Moskva, Goslesbumizdat, 1962. 633 p. (MIRA 16:5)

1. Glavnyy konstruktor Gosudarstvennogo instituta po proyektirovaniyu novykh mashin dlya lesozagotovok i splava (for Frolov).
(Hoisting machinery) (Conveying machinery)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

PLOTNIKOV, M.A.; YEVSTIFEYEVA, T.V.; TAUBER, B.A.; PETROV, V.Ye.; ZAV'YALOV, M.A.; NAZAROV, V.V.; ANOPOL'SKIY, M.G.; OBRAZTSOV, S.A.; BAMM, A.I.; GATSKEVICH, V.A.; CHEVAZHEVSKIY, A.P.; LRANISHNIKOV, L.G., retsenzent; ALKEYEV, N.F., otv. red.; SLUTSKER, M.Z., red. izd-va; VDOVINA, V.M., tekhn. red.

[Lumbering camps; mechanization of work at lower timber landings. A handbook] Lesozagotovki; mekhanizatsiia rabot na nizhnikh skladakh. Spravochnik. Moskva, Goslesbumizdat, 1962. 441 p. (MIRA 16:6)

(Lumbering)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

SOURCE: Mekhanizatsiya i avtomatizatsiya proizvodstva, No. [illegible], 1965, [illegible]

[illegible] former product storage facility, industrial automation, crane, hoist-

Card 1/2

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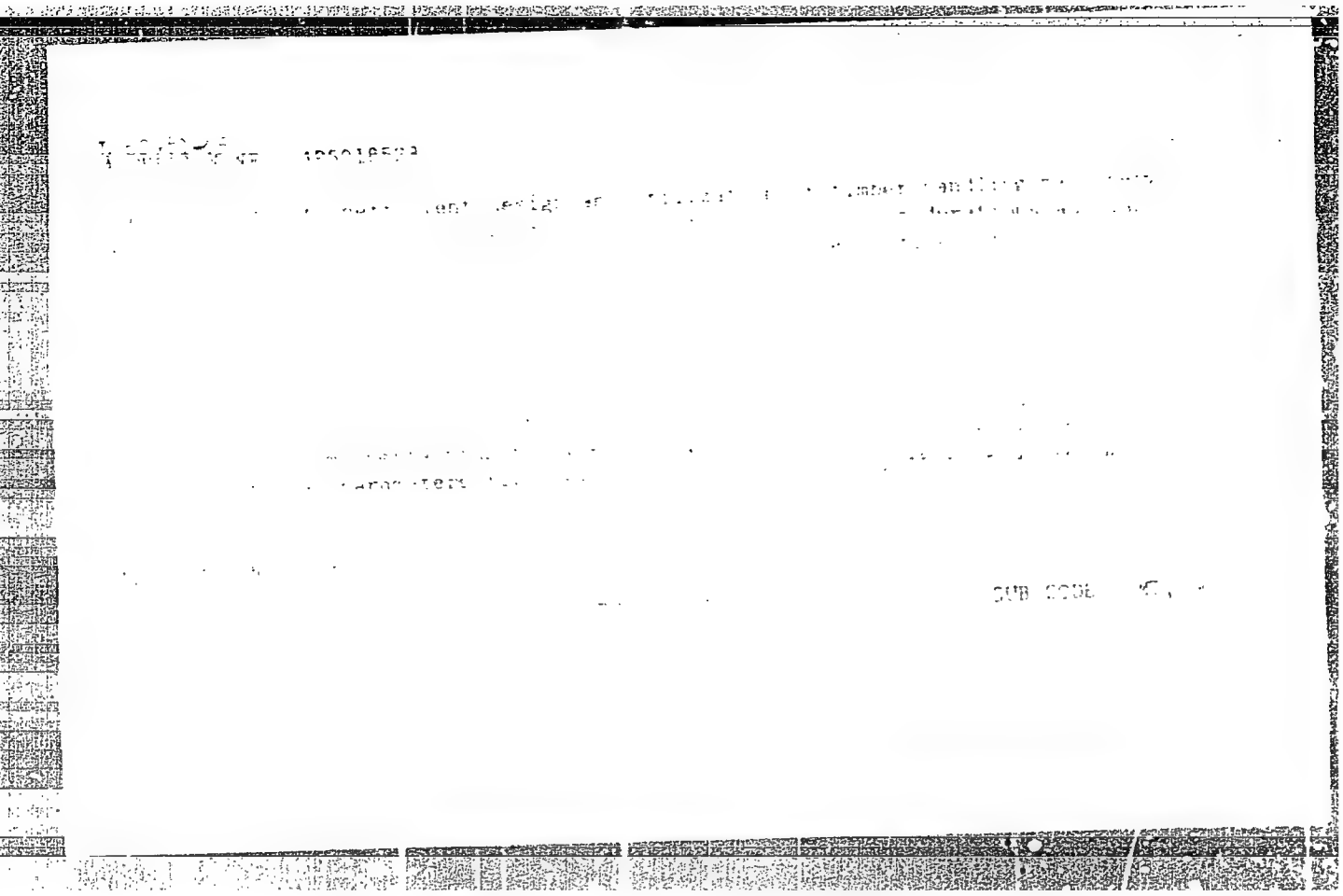
"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3



APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, B.A., doktor tekhn. nauk

Basic trends in the mechanization of lumber loading, unloading and storage operations. Mekh. i avtom. proizv. 19 no.7:13-18 Jl '65. (MIRA 18:9)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, B. M.

The Antarctic. Part I: Fundamental features of climate and weather.
(In Russian)
Leningrad, Hydrometeorological Publishing House, 1956,
148 p., num. figs., tables, charts.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

551.515.8:551.5244

TP-53

Tauber, G. M., K kharakteristike vozdushnykh mass nad O. Diksen. [On the properties of air masses over Dickson Island.] *Meteorologiia i Gidrologiia*, No. 9/10:85-99, 1938. 6 figs., 9 tables. DWB.—English summary with tabular data available as: Stone, R. G., The lapse rates in different air masses at Dickson Island, West Siberia. *American Meteorological Society, Bulletin*, 20(9):376-378, Nov 1939. DWB—Of 95 radiometeorograph soundings made at Dickson Island in 1935-37, 80% contained one or more inversions. Soundings were made in every month, but mainly in the spring and summer. Tables give the number of cases with inversion bases and tops in specified height ranges according to air mass and frequencies of specified amounts of temperature increase. The majority of the inversions were below 3000 m, the bases mostly between 150 and 600 m and the tops mostly between 1000 and [illegible]. For correspondence and surface radiation were factors in the formation of inversions. Some [illegible] Jan 1936 [illegible] Subject Headings 1. Temperature inversions 2. Temperature gradient in Arctic 3. Lapse rates 4. Dickson Island. —R.S.Q.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, G. M. Cand. Geograph. Sci.

Dissertation: "Aerosynoptic Characteristics of the Region of Dickson Island." Central Inst. of Weather Forecasting." 6 May 47.

SO: Vechernyaya Moskva, May, 1947 (Project #17836)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, G. M.

25612 TAUBER, G. M. Plavanie V Antarktike V 1947-1948 G G.
Izvestiya Vsesoyuz Geogr. O-Va. 1949, Vyp. 4, S. 369-85

So: Letopis' Zhurnal'nykh Statey, Vol. 34, Moshva, 1949

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, G. M. and others

Hydrometeorological observations on board of the whaling base Slava...1947
(In Russian)
Trudy Ocean. Inst., Leningrad, v. 14 (26), 1949; 19 (31), 1957
24 (36), 1954; 25 (37), 1957.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, G. M.

Climate - Antarctic Regions

Climate in Antarctica. Geog.v shkole No. 4 1952.

Monthly List of Russian Accessions, Library of Congress October 1952 UNCLASSIFIED

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, G. M.

PA 245T90

USSR/Meteorology - Ship Observations Nov 52

"Hydrometeorology Observations at Sea," G. M. Tauber, Cand Geog Sci, State Oceanographic Inst, Moscow

"Meteorol i Gidrol" No 11, pp 53-56

Stresses the importance of observations obtained from sea-going vessels. Suggests the equipping of ships with instruments for observational purposes.

245T90

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, G. M.

Shipboard Measurements of the Temperature of Air Meteorol. i. gidrologiya, No 2, 1953, pp 49-51

For the measurement of the temperature of air aboard ship a simple device is recommended. It consists of a thermometer in a metal case, the reservoir of which is supplied with three cone-shaped shields made of thin metal with polished and nickel-plated, or smoothly painted, surface. As shown by numerous comparisons with parallel readings of the aspiration psychrometer, the recommended device gives completely satisfactory results during sailing under various geographical and climatic conditions. (RZhGeol, No 5, 1954)

SO: Sum. No. 568, 6 Jul 55

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, G. M.

Experience in the Employment of the Electric Anemorhumbometer (ARME-1) Aboard Ship. Meteorol. i gidrologiya, No 4, 1953, pp 49-51

The author presents the results of an investigation of an experimental specimen of the anemorhumbometer of the type ARME-1 during the expedition of the State Oceanographic Institute at the whaler base "Slava" in the Antarctic during 1950-1951. For control the readings averaged over 200 seconds were compared within 20 seconds according to the anemorhumbometer with the paralled determinations according to the ordinary manual anemometer. The author presents the most essential characteristics of the operation of the device under conditions of storms, edge tossing, icing, and intense corrosion of individual parts of the device. Tests conducted in the course of 6 months indicated the reliability of operation of the device on the whole and the reliability of its electrical contact system in particular. The author recommends some inprovements in the constructional design of the device for its series production. (RZhGeol, No 5, 1954)

SO: Sum. No. 568, 6 Jul 55

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, G.M.

Expeditionary work in the Antarctic in 1949/50. Trudy GOIN no.24: 5-12 '54. (MLRA 9:11)

(Antarctic regions--Scientific expeditions)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, G. M.

"Meteorological Conditions of the Whaling Season 1949-1950 in the Regions of Operation of the Whaler "Slava-15".
Trudy Gos. okeanogr. in-ta, No 24, pp 13-20, 1954.

The characteristics of the meteorological conditions surrounding the operating season are given according to the principal weather elements and according to individual regions. Noted is the chief peculiarity of a given season, namely small frequency of storms and prevalence of good visibility, which has been related tothe weak development of cyclonic activity in the North Atlantic Ocean. The author indicates the dependence between seasonal displacement of antarctic front to the north and seasonal movement of the floating ice rim in the same direction; during the period from November to December it amounts, according to maps, to 12°-14° along the latitude, characterizing the annual displacement. (RZhGeol, No 7, 1955)

SO: Sum No 884, 9 Apr 1956

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, G. M.

Antarktika, Chast' 1. Osnovnyye cherty klimata i pogody [Anarctic. Part 1. Main features of climate and weather], 1956

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

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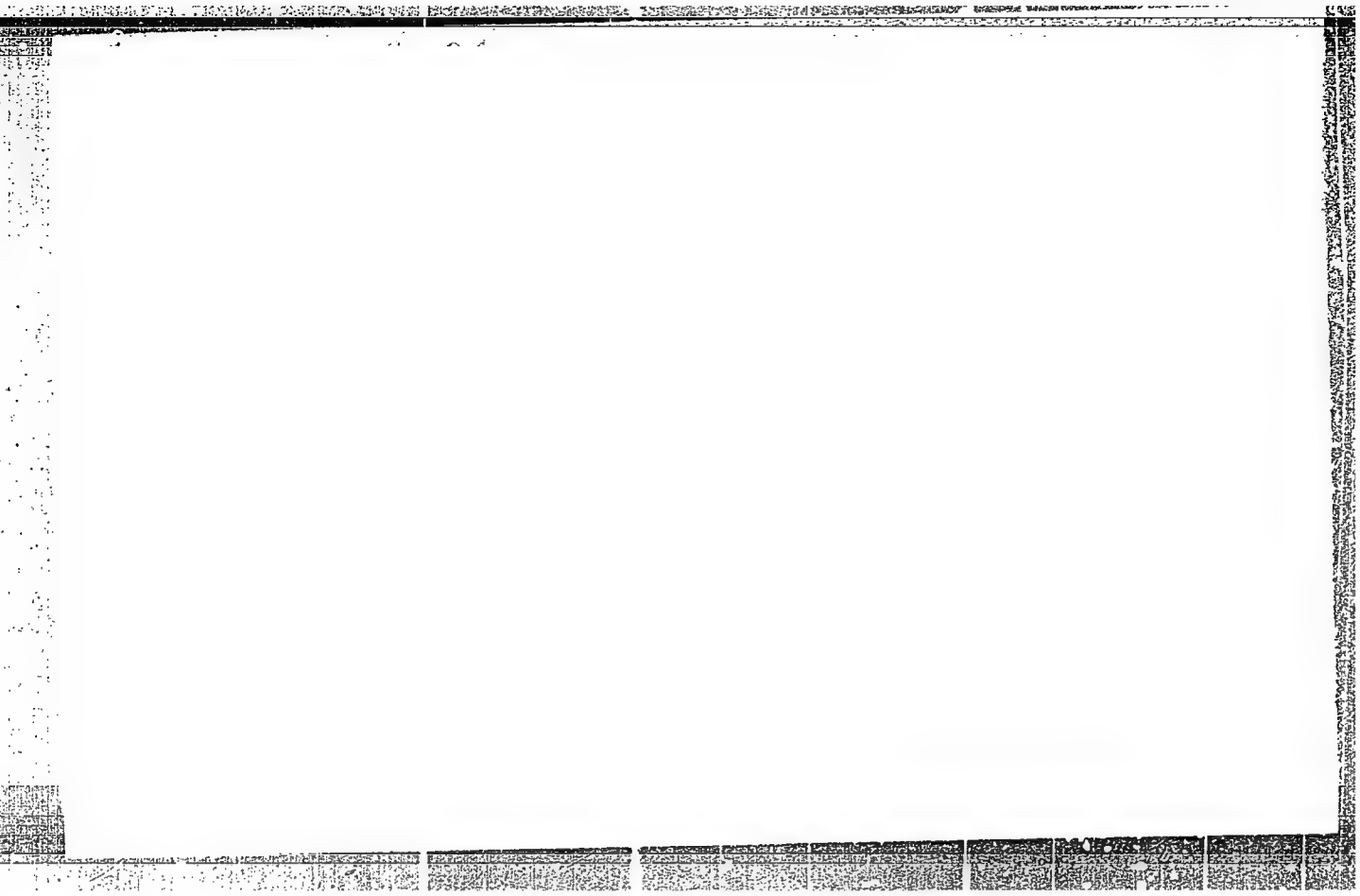

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TAUBER, G.M.

Main climatic features of the Antarctic. Meteor. i gidrol. no.1: 13-18 Ja '56. (MLRA 9:6)
(Antarctic regions--Climate)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, G.M.

Aerological and meteorological investigations in the Antarctic by the First Soviet Antarctic Expedition in 1955-1957. Meteor.i gidrol no.6:3-11 Je '57. (MIRA 10:8)

(Antarctic regions)
(Meteorology)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, G.M.

AUTHOR: Kolobkov, N. V. 50-58-3-20/22

TITLE: The Meteorological Commission of the Moscow Branch of the Geographical Society of the USSR (Meteorologicheskaya komissiya Moskovskogo filiala Geograficheskogo Obshchestva SSSR)

PERIODICLA: Meteorologiya i Gidrologiya, 1958, Nr 3, p. 69 (USSR)

ABSTRACT: On November 16, 1957 a meeting of the Meteorological Commission of the Moscow Branch of the Geographical Society of the USSR was held at the Moscow Lomonosov State University. The meeting began with a lecture by G. M. Tauber on the subject "Peculiarities of the Meteorological Conditions of the Antarctic.". The main work of this commission is divided into the following sections: lectures and their discussion on the last scientific achievements of meteorology, informations on meteorological science in the USSR and abroad, examination of notes and papers on meteorological subjects of special interest, arrangement of guided excursions, participation in public measures, explanatory work in problems of meteorology, contributions to scientific research subjects, scientific

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The Meteorological Commission of the Moscow Branch of the Geographical Society of the USSR 50-58-3-20/22

contact with meteorological societies abroad etc.

1. Meteorology--USSR

Card 2/2

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, Georgiy Mikhaylovkch, doktor geograf.nauk; SEN'KO, Pavel Kononovich, kand.geograf.nauk; DOLGUSHIN, Leonid Dmitriyevich, kand.geograf.nauk; MEL'NIKOVA, N.B., red.; STREIKOVA, N.A., red.izd-va; ATROSHCHENKO, L.Ye., tekhn.red.

[Soviet scientists on the sixth continent] Sovetskie uchenye na shestom kontinente. Moskva, Izd-vo "Znanie," 1959. 31 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.9, Fizika i khimiia, no.21)

(MIRA 12:11)

(Antarctic regions)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBER, G.M.

(10)

PHASE I BOOK EXPLOITATION SOV/3606

Nauchnaya konferentsiya po problemam meteorologii Antarktiki, Moscow, 1959

Tezisy dokladov (Theses of Reports at the Scientific Conference on Meteorological Problems in Antarctica, Moscow, 1959) Moscow, Gidrometeoizdat (Otd-niye) 1959. 47 p. 1,000 copies printed.

Ed.: O.G. Krichak; Tech. Ed.: I.M. Zarkh.

PURPOSE: The publication is intended for meteorologists, particularly for those interested in the climatology of Antarctica.

COVERAGE: This book contains summaries of thirty-five reports presented at the Scientific Conference on Meteorological Problems in Antarctica, held in Moscow, October 26 to 28, 1959. The summaries are arranged in four groups: (1) general problems of the geography of Antarctica; (2) atmospheric circulation; (3) radiation balance, heat balance, climate and special features of individual elements; (4) methods of observation and measurement. No personalities are mentioned. There are no references.

PART III. RADIATION BALANCE, HEAT BALANCE, CLIMATE, AND THE CONDITION OF INDIVIDUAL ELEMENTS

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

Tauber G.M.

3(3) PHASE I BOOK EXPLOITATION SOV/3223

Akademiya nauk SSSR. Komplekstnaya antarkticheskaya ekspeditsiya

Klimat Antarktiki (Climate of the Antarctic) Moscow, Geografgiz, 1959. 295 p. (Series: Its: Trudy; Meteorologiya i klimatologiya) Errata slip inserted. 4,000 copies printed.

Ed.: S. M. Runkevich; Tech. Ed.: S. M. Kochelaev; Editorial Board: V. F. Burchanov, E. L. Dzerdzeyevskiy, Kh. P. Pogosyan, and O. M. Tauber.

PURPOSE: This book is intended for meteorologists and climatologists. It will be of interest to all earth scientists concerned with the Antarctic region.

COVERAGE: This book contains 18 articles on the weather and climate of Antarctica. Articles represent the generalized results of processing data obtained by the Soviets during their expeditions to the Antarctic, 1955-1958. Individual authors have attempted to clarify and unify previously divergent views on Antarctic meteorological processes (zonal circulation, temperature distributions, cyclonic and anticyclonic movement, etc.). No personalities are mentioned. References accompany individual articles.

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TAUBER, G.M.

(13)

PART I BOOK EXPLOITATION SOV/5606

Nauchnye konferentsiya po problemam meteorologii Antarktiki, Moscow, 1959

Trudy dokladov (Theses of Reports at the Scientific Conference on Meteorological Problems in Antarctica, Moscow, 1959) Moscow, Gidrometeoizdat (Gidrolya) 1959. 47 p. 1,000 copies printed.

Ed.: G.G. Erichsk; Tech. Ed.: L.M. Zarth.

PURPOSE: The publication is intended for meteorologists, particularly for those interested in the climatology of Antarctica.

CONTENTS: This book contains [illegible] theses reports presented at the Scientific Conference on Meteorological Problems in Antarctica, held in Moscow, October 26 to 28, 1959. The theses are arranged in four groups: (1) general problems of the geography of Antarctica; (2) atmospheric circulation; (3) radiation balance, heat balance, climate and special features of individual elements; (4) methods of observation and measurement. No personalities are mentioned. There are no references.

PART I. GENERAL GEOGRAPHICAL PROBLEMS

Bugayev, V.A. [Candidate of Physics and Mathematics, Central'nyy institut prognozov (Central Forecasting Institute)] and K.P. Shishkin [Candidate of Geographical Sciences, Glavnoye upravleniye Severnogo morskogo puti (Main Administration of the Northern Sea Route)] Main Relief Features of Eastern Antarctica 3

Kotlyakov, V.M. [Candidate of Geographical Sciences, Institute geografii AN SSSR (Institute of Geography, AS USSR)], and A.V. Shchitnikov [Glavnoye upravleniye Severnogo morskogo puti (Main Administration of the Northern Sea Route)] Antarctic Ice-Cap, Its Thickness and the Relief of Underlying Rock 5

PART II. ATMOSPHERIC CIRCULATION

Tabler, G.M. [Doctor of Geographical Sciences, Gosudarstvennyy okeanograficheskiy [illegible] Okeanograficheskiy Institute)] Climatic Cyclone in the Western Part of the Indian Sector of Antarctica 6

Gaevskiy, A.M. [Professor, Doctor of Physics and Mathematics, Institut prikladnoy geofiziki AN SSSR (Institute of Applied Geophysics, AS USSR)] Theoretical Diagram of Air Circulation Over Antarctica 9

Dzerdzeyevskiy, B.L. [Professor, Doctor of Geographical Sciences, Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova (Moscow State University im. M.V. Lomonosov)] Special Features of Summer Circulation and Weather in the Antarctic Waters According to Observations From the "Ob" in 1956-1957 9

Erichsk, G.G. [Candidate of Geographical Sciences, Central'nyy institut prognozov (Central Forecasting Institute)] Atmospheric Circulation in Antarctica and the Southern Hemisphere 10

Gayevoy, S.S. [Candidate of Geographical Sciences, Central'naya aerologicheskaya observatoriya (Central Aerological Observatory)] Some Special Features of Circulation and Structure of the Atmosphere in Antarctica and the Central Arctic 11

Polshtyer, Ye.I. [Main Administration of the Northern Sea Route] Air Waves in Eastern Antarctica 12

Arsenyeva, F.D. [Docent, Candidate of Geographical Sciences, Leningradskiy gidrometeorologicheskiy institut (Leningrad Hydro-Meteorological Institute)] Development of Synoptic Processes Over Western Antarctica 13

Popova, Kh.P. [Professor, Doctor of Geographical Sciences, Central'nyy institut prognozov (Central Forecasting Institute)] Special Features of the Temperature at High Altitudes and of Atmospheric Circulation in Antarctica 14

Orvig, G.V. [Sredneaziatskiy nauchno issledovatel'skiy gidrometeorologicheskiy institut (Hydro-Meteorological Research Institute of Central Asia)] Problem of Studying Planetary Circulation by Means of Meteorological Characteristics 15

Shaposhnikov, V.M. [Professor, Doctor of Geographical Sciences, Leningradskiy gidrometeorologicheskiy institut (Leningrad Hydro-Meteorological Institute)] Some Special Features of the Regeneration of Cyclones on the Antarctic [illegible] 17

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

SOMOV, M.M., doktor geograf.nauk, red.; TAUBER, G.M., doktor geograf. nauk, red.; DOLGIN, I.M., kand.geograf.nauk, red.; ZVEREV, A.A., kand.geograf.nauk, red.; DROZHZHINA, L.P., tekhn.red.

[Materials of the Soviet Complex Antarctic Expedition] Materialy Sovetskoi kompleksnoi antarkticheskoi ekspeditsii. Leningrad, Izd-vo "Morskoi transport." Vol.2. [First Continental Expedition, 1955-1957; scientific results] Pervaia kontinental'naia ekspeditsiia, 1955-1957 gg.; nauchnye rezul'taty. Pod red. M.M.Somova. 1959. 161 p. Vol.3. [First Continental Expedition, 1955-1957; observation data] Pervaia kontinental'naia ekspeditsiia, 1955-1957 gg.; materialy nabliudenii. Pod red. G.M.Taubera. 1959. 459 p. Vol.4. [First Continental Expedition, 1955-1957; observation data] Pervaia kontinental'naia ekspeditsiia, 1955-1957 gg.; materialy nabliudenii. Pod red.G.M.Tauber, I.M.Dolgina. 1959. 482 p. Vol.6. [Second Marine Expedition in the diesel-electric ship "Ob'", 1956-1957; observation data] Vtoraia morskaia ekspeditsiia na d/e "Ob'", 1956-1957 gg.; materialy nabliudenii. Pod red. A.A.Zvereva. 1959. 386 p.
(MIRA 13:3)

1. Sovetskaya kompleksnaya antarkticheskaya ekspeditsiya, 1955-1958. (Antarctic regions--Russian exploration)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

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PHASE I BOOK EXPLOITATION SOV/4339

Sovetskaya antarkticheskaya ekspeditsiya, 1955-

Pervaya kontinental'naya ekspeditsiya 1955-1957 gg.; nauchnyye rezul'taty (First Continental Expedition, 1955-1957; Scientific Results) Leningrad, Izd-vo "Morskoy transport," 1959. 161 p. 2,000 copies printed. (Series: Its: Materialy, tom 2)

Sponsoring Agency: Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.

Ed.: M.M. Somov, Doctor of Geographical Sciences; Tech. Ed.: L.P. Drozhzhina.

PURPOSE: This book is intended for polar specialists, geographers, geolcgists, meteorologists, and geophysicists.

COVERAGE: This book is Volume 2 of a multivolume work containing scientific data collected by the First Soviet Continental Expedition to the Antarctic (1955-57), sent out under the auspices of the Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut (Arctic and Antarctic Scientific Research Institute) as part of the IGY program. The purpose of the expedition was to survey an area between 74 to 111°E longitude and 59 to 70°S latitude (an area of about 1

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million square kilometers), to develop methods and techniques for field studies applicable to local conditions, and to initiate a systematic study of the natural phenomena of the region. Ground and aerial observations were conducted in the more interesting areas around and between Mirnyy and Pionerskaya, in the three oases of Grierson, Bunger, and Vestfold, on the Shackleton Ice Shelf, Drygalski Island, and a number of nunataks (Amundsen, Gauss, etc.). Geological, geographic, and geophysical observations were made at the Mirnyy Observatory and at the Pionerskaya and Oazis research stations. No personalities are mentioned. There are no references.

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BURKHANOV, V.F., red.; DZERDZEYEVSKIY, B.L., red.; POGOSYAN, Kh.P., red.; TAUBER, G.M., red.; KUMMES, S.N., red.; MAL'CHEVSKIY, G.N., red.kart; KOSHELEVA, S.M., tekhn.red.

[The climate of Antarctica] Klimat Antarktiki. Moskva, Gos. izd-vo geogr.lit-ry, 1959. 285 p. (MIRA 12:11)

1. Akademiya nauk SSSR. Kompleksnaya antarkticheskaya ekspeditsiya, 1955- .
(Antarctic regions--Climate)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3"

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TAUBER, G.M.

PHASE I BOOK EXPLOITATION SOV/4341

Sovetskaya antarkticheskaya ekspeditsiya

Pervaya kontinental'naya ekspeditsiya 1955-1957 gg.: materialy nablyudeniy (First Continental Expedition, 1955-1957; Materials From Observations) Leningrad, Izd-vo Morskoy transport, 1959. 482 p. Errata slip inserted. 800 copies printed. (Series: Its: Materialy, tom. 4)

Sponsoring Agency: Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.

Eds.: G. M. Tauber, Doctor of Geography, and I. M. Dolgin, Candidate of Geography; Tech. Ed.: L. P. Drozhzhina.

PURPOSE: This book is intended for meteorologists and geophysicists.

COVERAGE: This volume, representing the fourth in a series containing data collected during the First Soviet Continental Expedition to the Antarctic (1955-57), is a compilation of aerological observations. The observations

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were made by radiosonde, pilot balloon, and radio pilot from the observatory at Mirnyy, the research station at Pionerskaya, the research ships "Lena" and "Kooperatsiya", Temporary Station no. 4, and during a tractor-drawn sled expedition. The data shown in the tables were computed by the method of mean algebraic values. Mean values for temperature, pressure and wind velocity, and extreme values for temperature were computed on the basis of not less than a series of five observations, and wind direction recurrence by not less than ten observations. The mean values are shown together with the number of observations made during each month. The aerological data was processed and prepared for publication at the Tsentral'naya aerologicheskaya observatoriya (Central Aerological Observatory) by R. A. Belogurova, N. A. Yefimova, Ya. M. Korpich, M. M. Kolomiytseva, R. A. Zagudayeva, G. A. Karpova, D. A. Ustinovich, A. M. Komarova, K. Ya. Nikishova, and Candidate of Geographic Sciences D. A. Murav'yeva. Data was processed under the general direction of Candidate of Geographic Sciences M. A. Zolotarev. A critical analysis of the observations was made by T. A. Tsitovich. The

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aeroclimatic processing of data gathered at Mirnyy was performed at the Division of Climate of the Arctic and Antarctic Scientific Research Institute, by Junior Scientific Worker L. P. Nikandrov, Engineer A. N. Vorob'yev, and Senior Technician V. A. Kharitonov, under the supervision of Junior Scientific Worker S. I. Sokolov. No references are given.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

SOMOV, M.M., otv. red.; MAKSIMOV, I.V., zamestitel' otv.red.; TRESHNIKOV, A.F., zamestitel' otv.red.; ANDRIYASHEV, A.P., red.; BUYNITSKIY, V.Kh., red.; VORONOV, P.S., red.; DOLGIN, I.M., red.; KALESNIK, S.V., red.; KOROTKEVICH, Ye.S., red.; NIKOL'SKIY, A.P., red.; RAVICH, M.G., red.; TAUBER, G.M., red.; FROLOV, V.V., red.; SLEVICH, S.B., red.; KAPLINSKAYA, L.G., red.izd-va; DROZHZHINA, L.P., tekhn.red.

[Report on observations completed by the Soviet Antarctic Expedition in 1957 and 1958] Otchet o nabliudeniiakh, vypolnennykh Sovetskoi antarkticheskoi ekspeditsiei v 1957 i 1958 gg. Sovetskaia antarkticheskaia ekspeditsiia, 1955-1958. Leningrad, Izd-vo "Morskoi transport," 1960. 39 p (Informatsionnyi biulletin', no.15) (MIRA 13:6)

(Antarctic regions--Russian exploration)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

S/169/63/000/003/028/042
D263/D307

AUTHOR: Tauber, G.M.

TITLE: On the problem of seasonal variations of circulation in the troposphere and the lower stratosphere over Antarctica

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 3, 1963, 39, abstract 3D228 (In collection: Materialy konferentsii po itogam MGG (1960) i meteorol. izuch. Antarktidy (1959), M., Gidrometeoizdat 1961, 55-56).

TEXT: From a preliminary analysis of IGY data the author concludes that the Antarctic anticyclone is a high formation, the origin of which is connected with thermal and dynamic factors. The prevailing circulation in the lower and middle troposphere is determined by this anticyclone. In the upper troposphere and lower stratosphere in the winter predominates cyclonic circulation, while anticyclonic circulation is dominant in the summer. Seasonal changes of circulation are connected with changes in the thermal state of

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On the problem of seasonal ...

Antarctica (formation of a warm region at a high altitude in the summer owing to absorption of solar radiation by ozone, and radiational cooling of the stratosphere in the winter). Processes over Central Antarctica possess an analogous character.
[Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

S/634/62/000/057/001/001
I053/I253

3.5000

AUTHOR: Tauber, G. M.

TITLE: Some characteristics of atmospheric circulation in the northern and southern hemispheres

SOURCE: Moscow. Gosudarstvennyy okeanograficheskiy institut. Trudy. no. 67, Moscow, 1962, 33–60

TEXT: The characteristics of the general circulation of the atmosphere of the earth's globe as well as the main differences produced by the physicogeographical conditions in the circulatory conditions in the two hemispheres, were analysed and compared. Available data concerning the zonal distribution of cyclones and anticyclones, their repeatable character and intensity, is discussed. Special attention was paid to circulation indices of atmospheric circulation in the zone included between the lines of 30 and 70 degrees of both hemispheres, based on observations made during the year 1958, when reported anomalies in the atmospheric circulation occurred compared with other years' standards. There are 8 figures and 6 tables.

English language references are:

31. Fucker G. B. Mean meridional circulation in the atmosphere. Quarty Met. Soc., vol. 86, no. 368, 1960,
32. Gibbs, W. A., Comparison of hemispheric circulations with particular reference to the Western Pacific. Quart. J. Meteorol. Soc., 79, no. 339, 1953.

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Some characteristics...

S/634/62/000/067/001/001
I053/I253

33. Pettersen, S., Some aspects of the general circulation of the atmosphere. Centenary Proc. Roy. Meteorol. Soc. London, 1950.

34. Rubin, M. J. and Van-Loon, H., Aspects of circulation of the Southern Hemisphere. J. Meteorol. 11, no. 1., 1954.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

SORKINA, Anna Il'inichna; TAUBER, G.M., otv. red.; MINENKO, V.M., red.; ZARKH, I.M., tekhn. red.

[Types of atmospheric circulation and associated wind fields over the northern part of the Pacific Ocean] Tipy atmosfernoi tsirkuliatsii i sviazannykh s nei vetrovykh polei nad severnoi chast'iu Tikhogo okeana. Moskva, Gidrometeoizdat (otd-nie), 1963. 247 p. (MIRA 16:6)
(Pacific Ocean--Winds)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

GAYGEROV, Semen Semenovich; TAUBER, G.M., otv. red.; ROSHCHINA, V.V., red.

[Aerology of the polar regions] Aerologiia poliarnykh raionov. Moskva, Gidrometeoizdat, 1964. 303 p. (MIRA 17:10)

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L 05342-67 EWT(1) GW

ACC NR: AT7000234 SOURCE CODE: UR/3174/66/000/057/0060/0064

AUTHOR: Tauber, G. M. (Doctor of geographical sciences)

ORG: State Oceanographic Institute (Gosudarstvennyy okeanograficheskiy institut)

TITLE: Atmospheric circulation in Antarctica (concise review of present status of the problem)

SOURCE: Sovetskaya antarkticheskaya ekspeditsiya, 1955-. Informatsionnyy byulleten' no. 57, 1966, 60-64

TOPIC TAGS: atmospheric circulation, antarctic climate

ABSTRACT: The findings of ten years of meteorological research in Antarctica are summarized. It has been found that there is a close interrelationship between synoptic processes in the high and low latitudes of the Southern Hemisphere, and a unity of atmospheric circulation in the entire hemisphere. Thus, the idea that there was an autonomous circulation in Antarctica and that Antarctica is isolated, common ten years ago, is completely refuted. In addition, it now is clear that there is air exchange between the hemispheres, although the mechanism of this circulation still has not been studied. The article defines the special problems which require continuing investigation: 1) Circulation of the atmosphere in the Southern Hemisphere and its interrelationship to circulation in the Northern Hemisphere; 2) In-

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terrelationship of atmospheric processes in the high and middle latitudes of the Southern Hemisphere; 3) Principal patterns of formation of large-scale blocking processes in Antarctica; 4) Stratospheric warmings in Antarctica; 5) Interrelationship between tropospheric and stratospheric processes; 6) Anticyclogenesis over Antarctica. Mechanism of formation of the polar anticyclone, its vertical structure and characteristics of the regime; 7) Cyclonic activity over the Antarctic continent. Principal paths of cyclones, their frequency and evolution; 8) Antarctic fronts; 9) Cyclogenesis on the Antarctic front; 10) Cyclogenesis on individual parts of the polar front, principal paths and rates of movement of cyclones in dependence on the development of macroprocesses in the hemisphere and regeneration of polar front cyclones in Antarctica. [JPRS: 37,058]

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1ST AND 2ND GROUPS

PROCESSES AND PROPERTIES INDEX

2

Ca

Measurements of isotherms of specific wetting. A. B. Taubman. *J. Phys. Chem.* (U. S. S. R.) 1, 862–71 (1930).—A study of the effect of saponin solns. of various concns. on the wetting of paraffin by water and the rate of change of surface tension on the boundary: saponin soln.-air. In measuring the angle of contact on the boundary soln.-air on a paraffin wall with change of concn. of the saponin a change from an obtuse to an acute angle as a result of the adsorption of saponin on the interface is observed. Beginning with a concn. of saponin of 0.01%, paraffin is wet by a water soln. It was assumed that the Rebinder equation for the kinetics of adsorption was applicable. (Cf. Rebinder, *J. Russ. Phys.-Chem. Soc.* 59, 800(1928).) G. Fertman

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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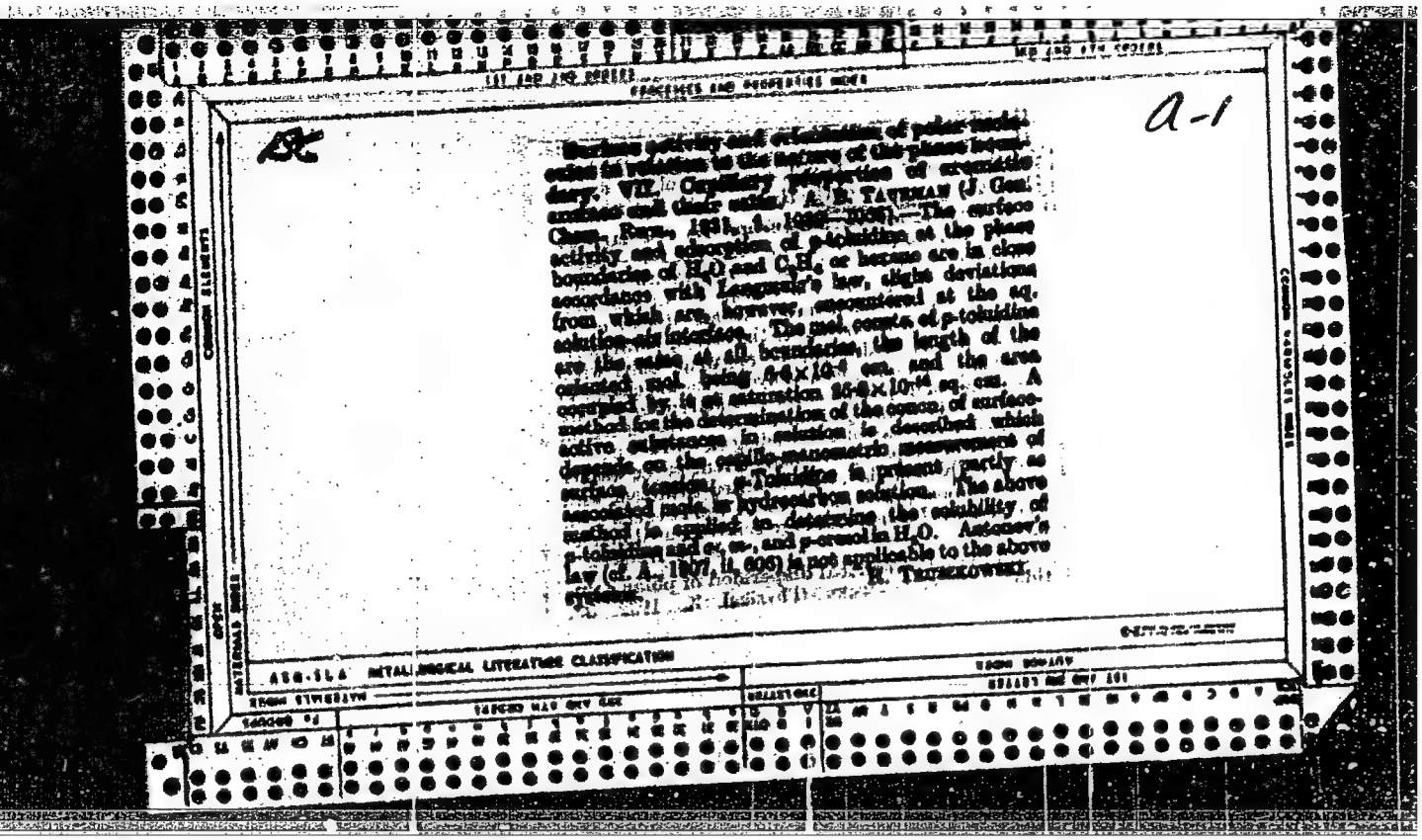

a-1

Surface activity and orientation of polar-nonpolar substances in relation to the nature of the phase boundary. VII. Capillary properties of organic amines and their salts. A. B. TAUBMAN (J. Gen. Chem., Russ., 1951, 21, 1695—1706). The surface activity and adsorption of p-toluidine at the phase boundaries of H_2O and C_6H_6 or hexane are in close accordance with Langmuir's law, slight deviations from which are, however, encountered at the aq.-solution-air interface. The mol. cross-sections of p-toluidine are the same at all boundaries, the length of the oriented mol. being 4.6×10^{-8} cm. and the area occupied by it at saturation 21.6×10^{-16} sq. cm. A method for the determination of the conc. of surface-active substances in solution is described which depends on the capillo-manometric measurement of surface tension. p-Toluidine is present partly as associated mols. in hydrocarbon solution. The above method is applied to determine the solubility of p-toluidine and of o-, m-, and p-cresol in H_2O. Antonow's law (cf. A., 1907, ii, 600) is not applicable to the above systems. R. TRUSZKOWSKI.

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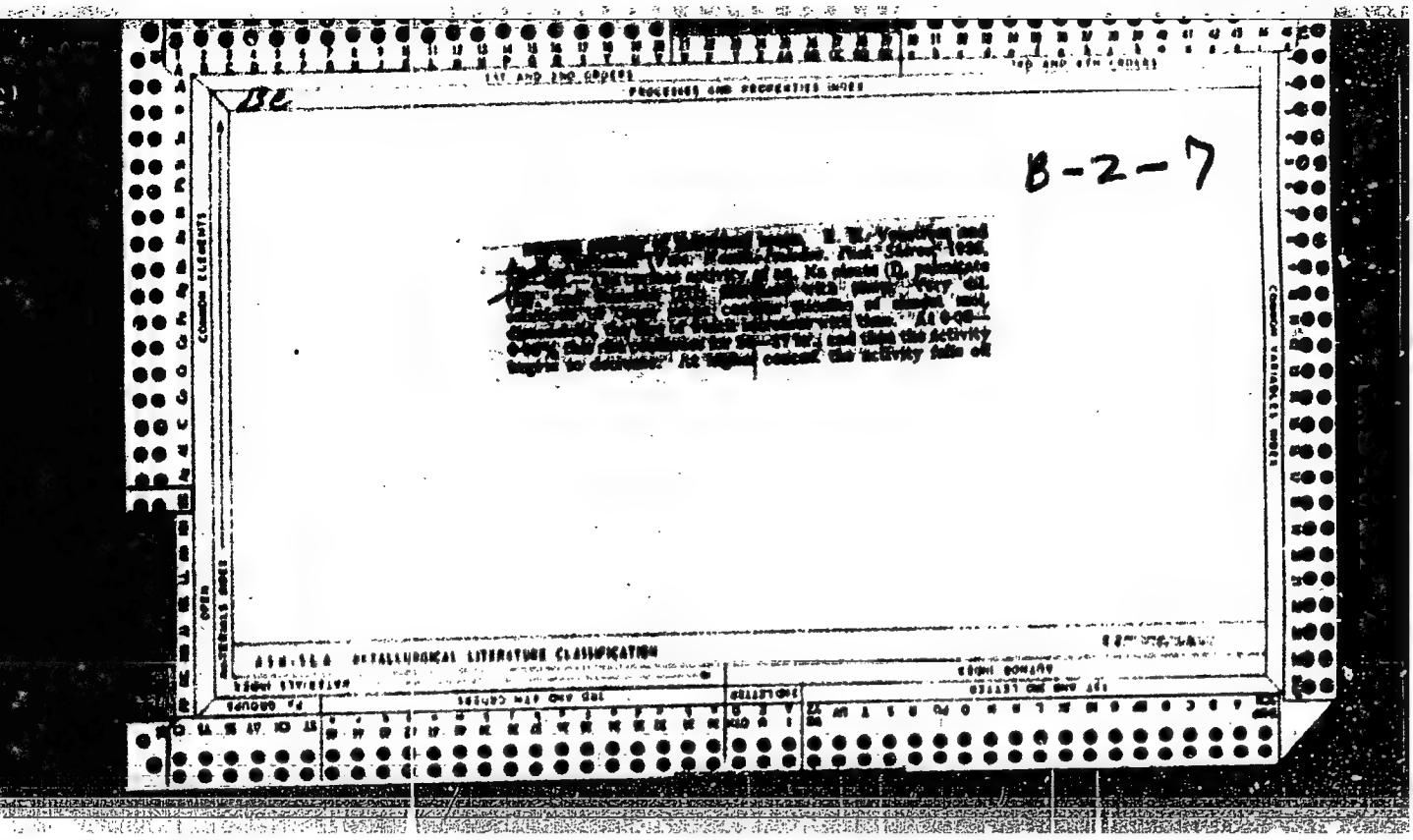

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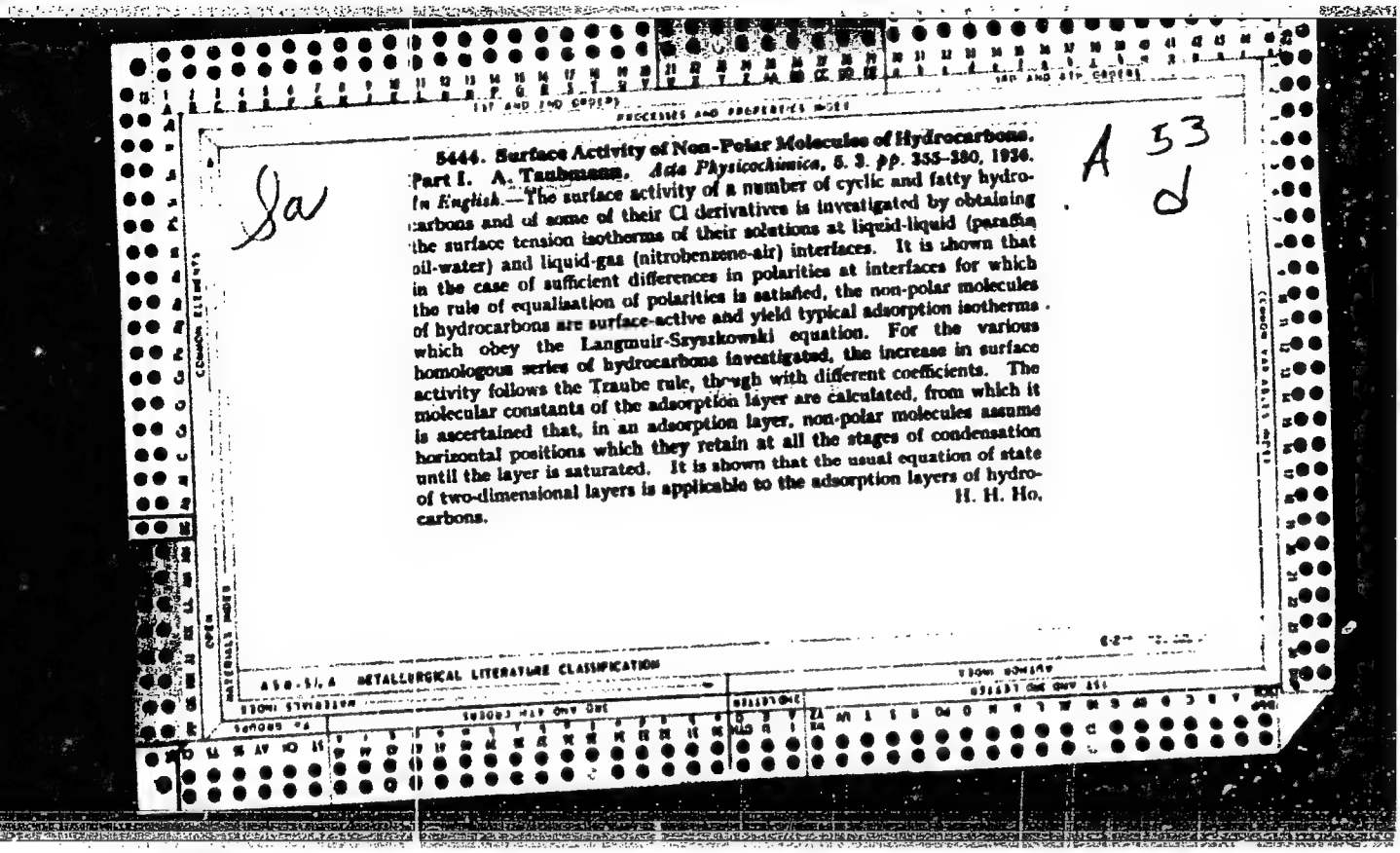

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d

5444. **Surface Activity of Non-Polar Molecules of Hydrocarbons. Part I.** A. Traubenberg. *Acta Physicochimica*, 5. 3. *pp.* 355–380, 1936. *In English.*—The surface activity of a number of cyclic and fatty hydrocarbons and of some of their Cl derivatives is investigated by obtaining the surface tension isotherms of their solutions at liquid-liquid (paraffin oil-water) and liquid-gas (nitrobenzene-air) interfaces. It is shown that in the case of sufficient differences in polarities at interfaces for which the rule of equalisation of polarities is satisfied, the non-polar molecules of hydrocarbons are surface-active and yield typical adsorption isotherms which obey the Langmuir-Szyszkowski equation. For the various homologous series of hydrocarbons investigated, the increase in surface activity follows the Traube rule, though with different coefficients. The molecular constants of the adsorption layer are calculated, from which it is ascertained that, in an adsorption layer, non-polar molecules assume horizontal positions which they retain at all the stages of condensation until the layer is saturated. It is shown that the usual equation of state of two-dimensional layers is applicable to the adsorption layers of hydrocarbons.

H. H. Ho.

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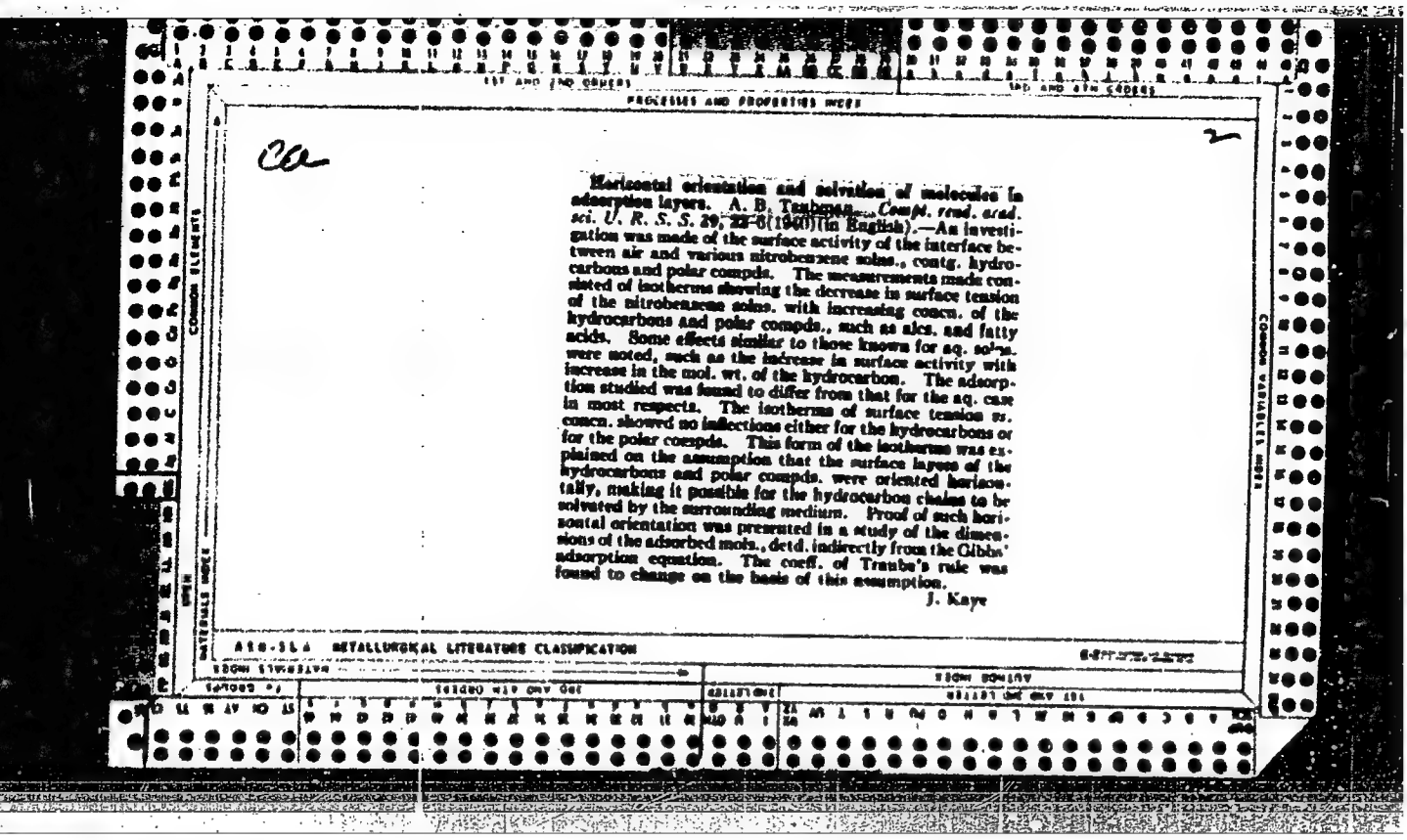

PROCESSES AND PROPERTIES INDEX

Co

2

Horizontal orientation and solvation of molecules in adsorption layers. A. B. Traubenberg. *Compt. rend. acad. sci. U. R. S. S.* 29, 22-6(1940)(in English).—An investigation was made of the surface activity of the interface between air and various nitrobenzene solns., contg. hydrocarbons and polar compds. The measurements made consisted of isotherms showing the decrease in surface tension of the nitrobenzene solns. with increasing concn. of the hydrocarbons and polar compds., such as alcs. and fatty acids. Some effects similar to those known for aq. solns. were noted, such as the increase in surface activity with increase in the mol. wt. of the hydrocarbon. The adsorption studied was found to differ from that for the aq. case in most respects. The isotherms of surface tension vs. concn. showed no inflections either for the hydrocarbons or for the polar compds. This form of the isotherms was explained on the assumption that the surface layers of the hydrocarbons and polar compds. were oriented horizontally, making it possible for the hydrocarbon chains to be solvated by the surrounding medium. Proof of such horizontal orientation was presented in a study of the dimensions of the adsorbed mols., detd. indirectly from the Gibbs' adsorption equation. The coeff. of Traube's rule was found to change on the basis of this assumption.

J. Kaye

A10-51A METALLURGICAL LITERATURE CLASSIFICATION

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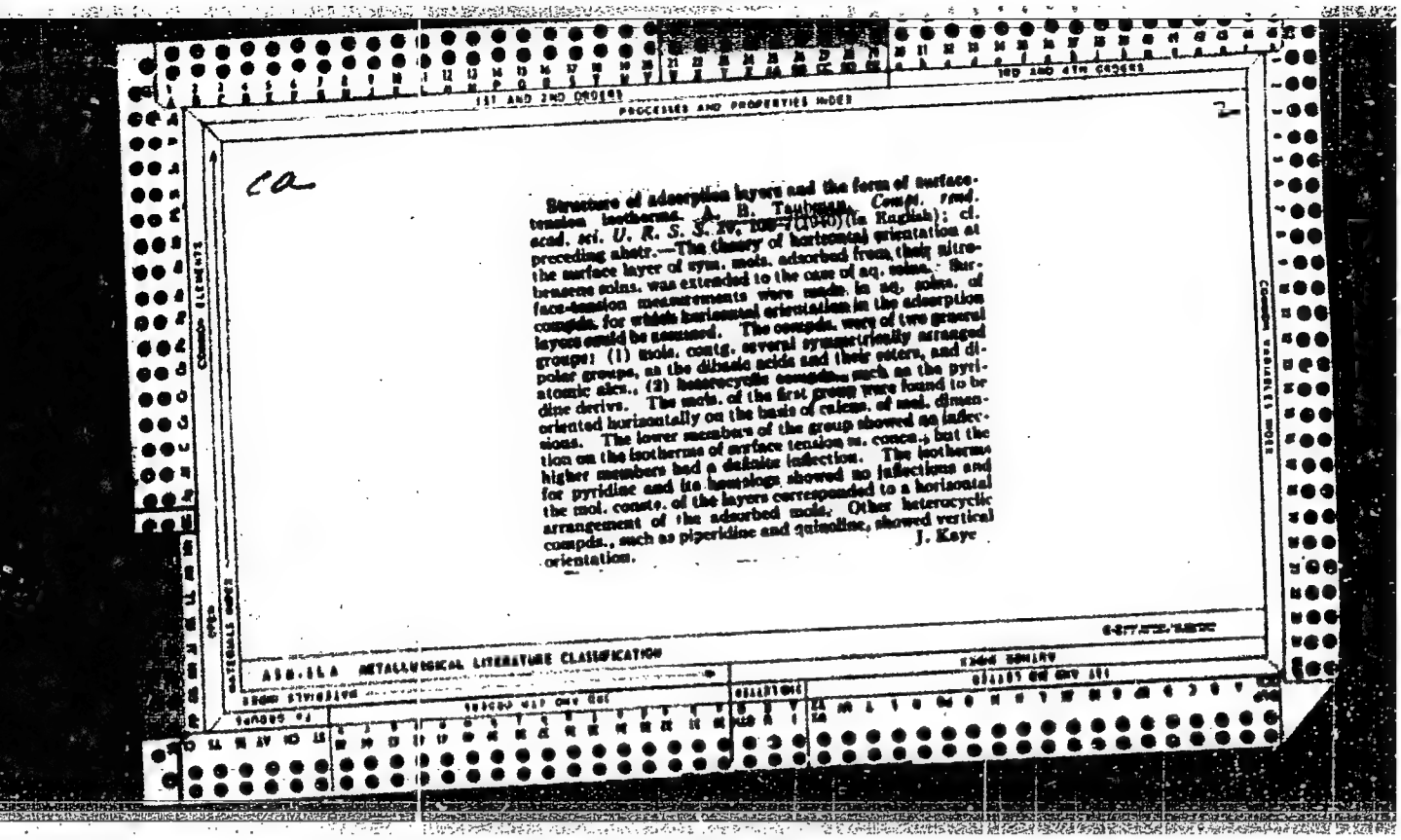

ca

Structure of adsorption layers and the form of surface-tension isotherms. A. B. Taubman. *Compt. rend. acad. sci. U. R. S. S.* xv, 109–[illegible](1940)(In English); cf. preceding abstr.—The theory of horizontal orientation of the surface layer of sym. mols. adsorbed from their nitrobenzene solns. was extended to the case of aq. solns. Surface-tension measurements were made in aq. solns. of compds. for which horizontal orientation in the adsorption layers could be assumed. The compds. were of two general groups: (1) mols. contg. several symmetrically arranged polar groups, as the dibasic acids and their esters, and diatomic alcs., (2) heterocyclic compds. such as the pyridine derivs. The mols. of the first group were found to be oriented horizontally on the basis of calcns. of mol. dimensions. The lower members of the group showed an inflection on the isotherms of surface tension vs. concn., but the higher members had a definite inflection. The isotherms for pyridine and its homologs showed no inflections and the mol. consts. of the layers corresponded to a horizontal arrangement of the adsorbed mols. Other heterocyclic compds., such as piperidine and quinoline, showed vertical orientation.

J. Kaye

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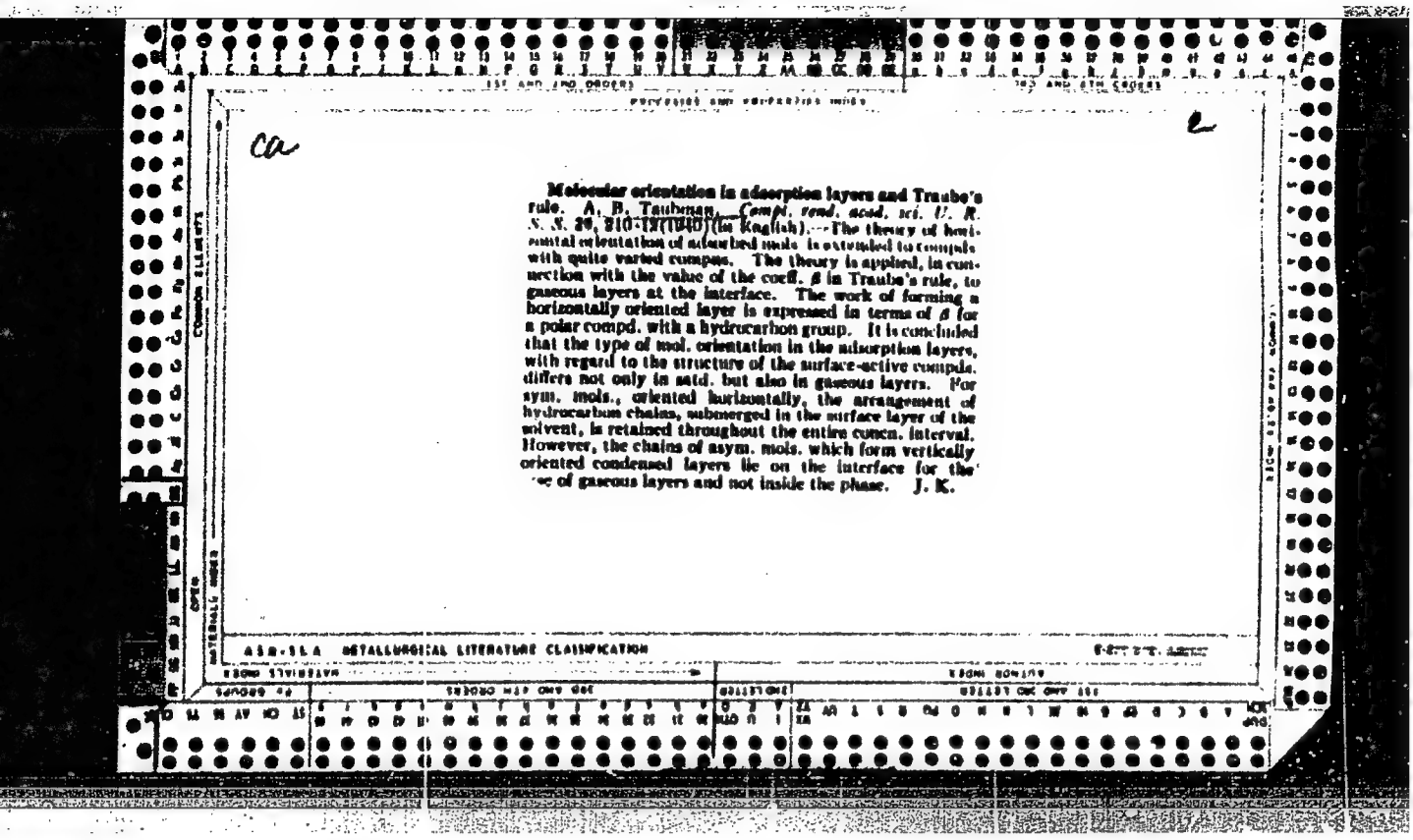

Ca

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Molecular orientation in adsorption layers and Traube's rule. A. B. Taubman. *Compt. rend. acad. sci. U. R. S. S.* 29, 210-13(1940)(in English).—The theory of horizontal orientation of adsorbed mols. is extended to compds. with quite varied compns. The theory is applied, in connection with the value of the coeff. β in Traube's rule, to gaseous layers at the interface. The work of forming a horizontally oriented layer is expressed in terms of β for a polar compd. with a hydrocarbon group. It is concluded that the type of mol. orientation in the adsorption layers, with regard to the structure of the surface-active compds. differs not only in satd. but also in gaseous layers. For asym. mols., oriented horizontally, the arrangement of hydrocarbon chains, submerged in the surface layer of the solvent, is retained throughout the entire concn. interval. However, the chains of asym. mols. which form vertically oriented condensed layers lie on the interface for the ...e of gaseous layers and not inside the phase. J. K.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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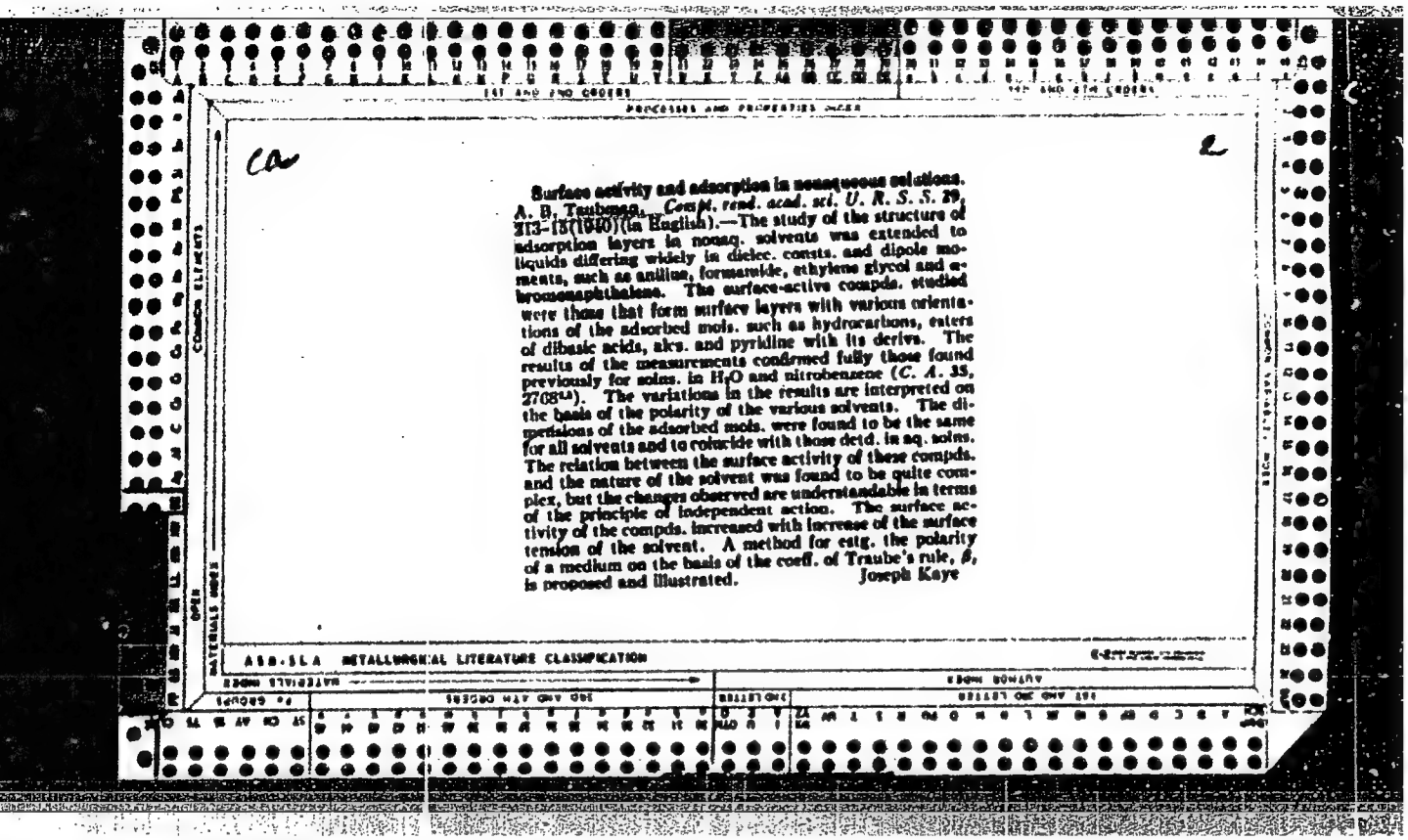

Surface activity and adsorption in nonaqueous solutions. A. B. Taubman. *Compt. rend. acad. sci. U. R. S. S.* 29, 213-15(1940)(in English).—The study of the structure of adsorption layers in nonaq. solvents was extended to liquids differing widely in dielec. consts. and dipole moments, such as aniline, formamide, ethylene glycol and α-bromonaphthalene. The surface-active compds. studied were those that form surface layers with various orientations of the adsorbed mols. such as hydrocarbons, esters of dibasic acids, alks. and pyridine with its derivs. The results of the measurements confirmed fully those found previously for solns. in H_2O and nitrobenzene (*C. A.* 35, 2768[1]). The variations in the results are interpreted on the basis of the polarity of the various solvents. The dimensions of the adsorbed mols. were found to be the same for all solvents and to coincide with those detd. in aq. solns. The relation between the surface activity of these compds. and the nature of the solvent was found to be quite complex, but the changes observed are understandable in terms of the principle of independent action. The surface activity of the compds. increased with increase of the surface tension of the solvent. A method for estg. the polarity of a medium on the basis of the coeff. of Traube's rule, β, is proposed and illustrated. Joseph Kaye

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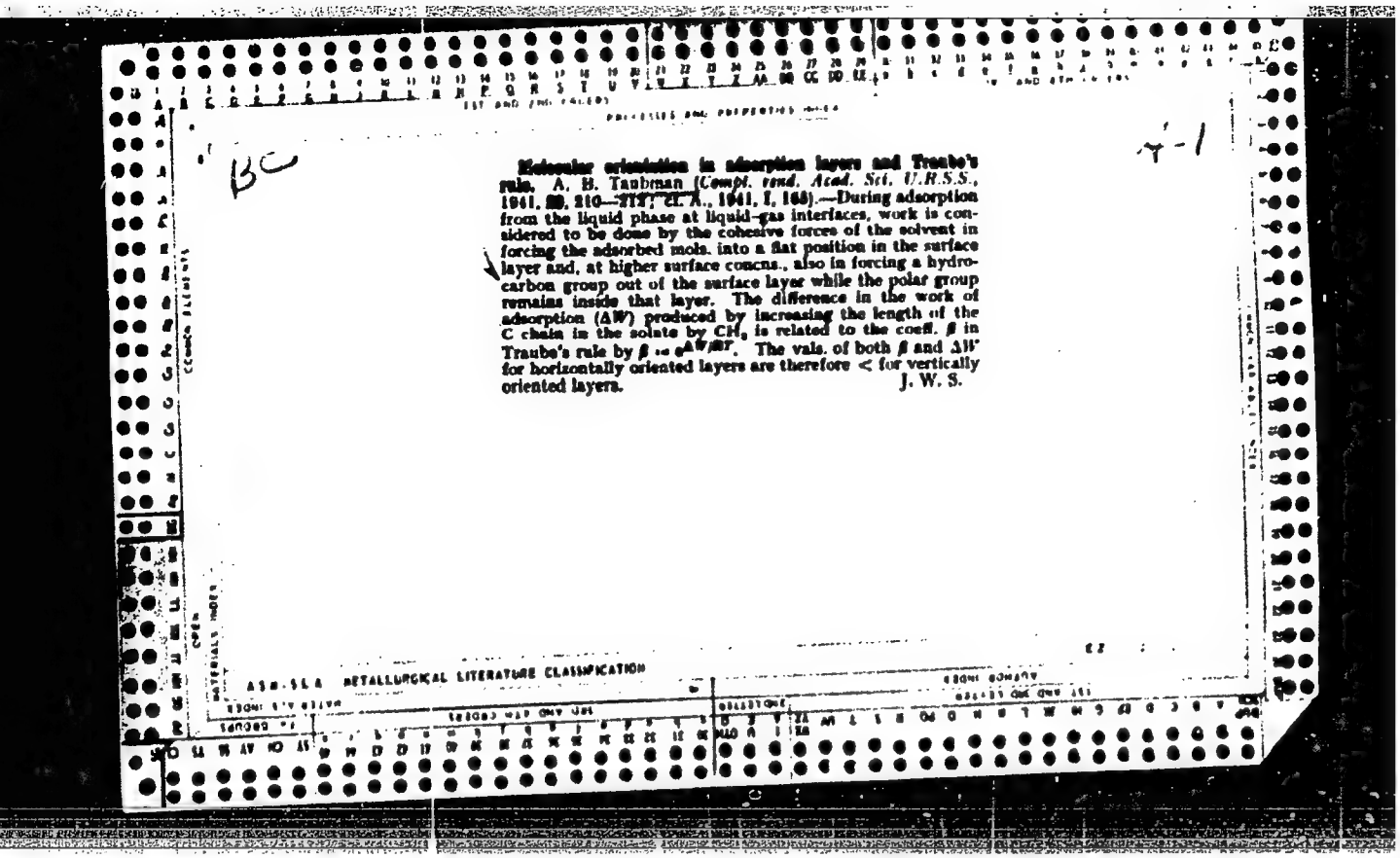

Molecular orientation in adsorption layers and Traube's rule. A. B. Taubman (*Compt. rend. Acad. Sci. U.R.S.S.*, 1941, **30**, 210—212; *C. A.*, 1941, **1**, 168).—During adsorption from the liquid phase at liquid–gas interfaces, work is considered to be done by the cohesive forces of the solvent in forcing the adsorbed mols. into a flat position in the surface layer and, at higher surface concns., also in forcing a hydrocarbon group out of the surface layer while the polar group remains inside that layer. The difference in the work of adsorption (ΔW) produced by increasing the length of the C chain in the solute by CH_2 is related to the coeff. β in Traube's rule by $\beta = e^{\Delta W/RT}$. The vals. of both β and ΔW for horizontally oriented layers are therefore < for vertically oriented layers. J. W. S.

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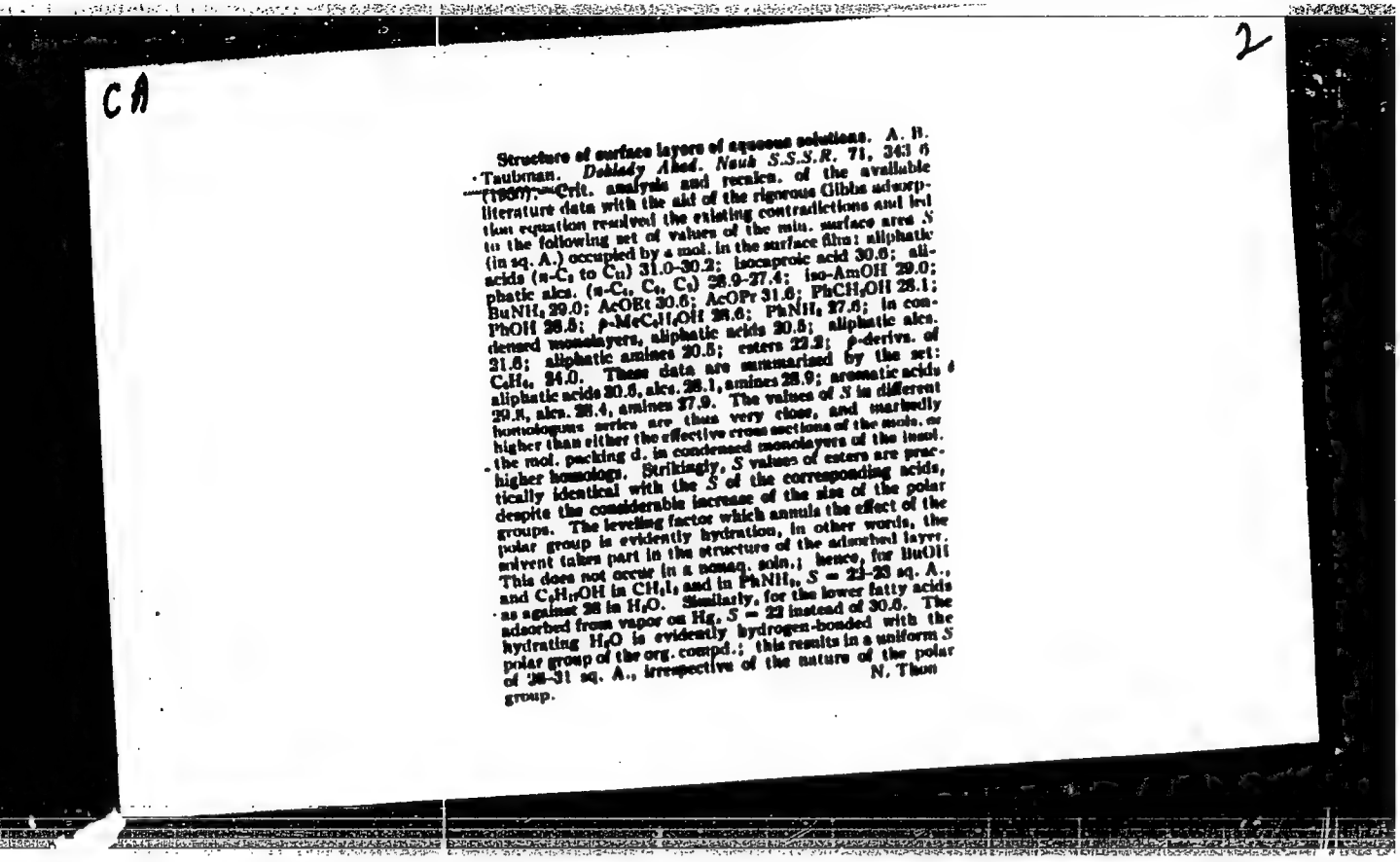

CA

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Structure of surface layers of aqueous solutions. A. B. Tauberman. *Doklady Akad. Nauk S.S.S.R.* 71, 343-6 (1950).—Crit. analysis and recalcn. of the available literature data with the aid of the rigorous Gibbs adsorption equation resolved the existing contradictions and led to the following set of values of the min. surface area *S* (in sq. A.) occupied by a mol. in the surface film: aliphatic acids (*n*-C_3 to C_{11}) 31.0–30.2; isocaproic acid 30.0; aliphatic alcs. (*n*-C_5, C_6, C_8) 28.0–27.4; iso-AmOH 29.0; $BuNH_2$ 29.0; AcOEt 30.6; AcOPr 31.6; $PhCH_2OH$ 28.1; PhOH 26.5; *p*-MeC_6H_4OH 28.6; $PhNH_2$ 27.6; in condensed monolayers, aliphatic acids 20.5; aliphatic alcs. 21.6; aliphatic amines 20.5; esters 22.2; *p*-derivs. of C_6H_6 24.0. These data are summarized by the set: aliphatic acids 20.6, alcs. 28.1, amines 28.9; aromatic acids 29.8, alcs. 28.4, amines 27.9. The values of *S* in different homologous series are thus very close, and markedly higher than either the effective cross sections of the mols. or the mol. packing d. in condensed monolayers of the insol. higher homologs. Strikingly, *S* values of esters are practically identical with the *S* of the corresponding acids, despite the considerable increase of the size of the polar groups. The leveling factor which annuls the effect of the polar group is evidently hydration, in other words, the solvent takes part in the structure of the adsorbed layer. This does not occur in a nonaq. soln.; hence, for BuOH and $C_7H_{15}OH$ in CH_2I_2 and in $PhNH_2$, *S* = 23–25 sq. A., as against 28 in H_2O. Similarly, for the lower fatty acids adsorbed from vapor on Hg, *S* = 22 instead of 30.6. The hydrating H_2O is evidently hydrogen-bonded with the polar group of the org. compd.; this results in a uniform *S* of 28–31 sq. A., irrespective of the nature of the polar group.

N. Thon

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C. A.

2

Adsorption from aqueous solutions of surface-active substances. A. B. Taubman (Phys. Chem. Inst., Acad. Sci. U.S.S.R., Moscow). *Doklady Akad. Nauk S.S.S.R.* 74, 521–4(1950).—The adsorption of *p*-$MeC_6H_4NH_2$ (I) at the interface aq. soln./vapor, detd. by surface-tension measurements, is in no range increased by C_5H_5N (II) in the same soln.; increasing amts. of II only decrease the adsorption of I, without altering its S-shaped curve. The only observed effect in the binary I-II soln. is displacement. In contrast thereto, in the system I-$PhNH_2$ (III), the adsorption curve of I at low concns. lies below and intersects the curves of adsorption of I in the presence of III in the same soln. The concn. of I corresponding to the point of intersection is higher the lower the amt. of III. The S-shaped bend of the adsorption curves of I is gradually attenuated as the amt. of III increases and disappears altogether at sufficiently high III. In mixed aq. soln. of stearic acid and $CO(NH_2)_2$, adsorption of one component (at the interface aq. soln./hydrocarbon) is always enhanced by the presence of the other component, i.e. the adsorption curves of the mixed solns. lie above the curve of the pure component, without intersection. Only in this case can the interaction be ascribed to polar groups. In the case of the system I-III the effect is not due to an interaction between the 2 components, but to dilu. of mols. of one component by the mols. of the other in the adsorbed layer. N. Thon

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Molecular interactions in adsorption layers. A. B. Taubman (Acad. Sci. U.S.S.R., Moscow). *Doklady Akad. Nauk S.S.S.R.* 74, 719–61(1950); cf. *C.A.* 44, 5132e.—Isotherms of the surface tension σ at the interface between a soln. of a water-insol. surface-active substance (cetyl alc., lauric acid, stearic acid) in C_6H_{14} and H_2O, plotted against the concn. c of the surface-active substance, are different from the usual $\sigma(c)$ curves for the interface of an aq. soln. and vapor; in particular, they fail to show the initial S-shaped bend which is characteristic of the water-sol. members of all homologous series from about C_6 upwards. That different shape of the σ isotherms is evidently due to an interaction between the nonpolar ends of the solute mols. and the hydrocarbon solvent, which results in a weakening of the mutual attraction between the solute mols. In terms of the Schofield and Rideal equation of state, $\Delta\sigma(S - S_{min.}) = RT\Gamma$, the change of the shape of the σ isotherm is linked with the value of x, expressing the lateral attraction force between the solute mols. in the surface layer; x falls with increasing chain length, from 0.98 for AcOH to 0.23 for lauric acid. Accordingly, for the interface lauric acid in aq. soln./vapor, the $\Delta\sigma(c)$ curve has the typical S shape. In contrast thereto, the same curve for stearic acid in C_6H_{14}/H_2O corresponds to $x = 0.95$, i.e. is practically the same as for the lowest members of the homologous series. Consequently, mols. of the water-insol. higher homologs adsorbed at the interface org. soln./H_2O, are in the gaseous state. The min. surface area $S_{min.}$ occupied by an oriented stearic acid mol. at the interface org. soln./H_2O, 20.7 sq. A., is the same as for the water-sol. lower and medium fatty acids, and different from the surface area, 20.5 sq. A., of a mol. in a condensed monolayer. This expansion of the surface layer, which brings it close to the gaseous state, is the result of the solvation of the stearic acid. The product of the surface-area expansion, $\Delta S \sim 10$ sq. A./mol., by the surface pressure of the mtd. surface layer, ~25 dyne, gives for the free energy of formation of the "surface soln." ~300 cal./mole. The closeness of the $\sigma(c)$ isotherms of lauric and of stearic acid indicates that, with identical polar groups, the length of the chain has no significant effect on the work of adsorption.

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YAKHNIN, Ye.D.; TAUBMAN, A.B.

Structure formation in disperse systems. Dokl. AN SSSR 155 no.1:179-182 Mr '64. (MIRA 17:4)

1. Institut fizicheskoy khimii AN SSSR. Predstavleno akademikom P.A.Rebinderom.

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TAUBMAN, A.B.

LAPATUKHIN, V.S.; TAUBMAN, A.B., doktor khimicheskikh nauk, redaktor.

[Physical and chemical principles of offset form processes. Making materials for blanks] Fiziko-khimicheskie osnovy ofsetnykh formnykh protsessov; obrazovanie probel'nykh elementov. Pod red. A.B.Taubmana. Moskva, Iskusstvo, 1952. 171 p. (MLRA 7:6)
(Offset printing)

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TAUBMAN, A.B.

equation. The mean values of S are for aliphatic acids 30.5, aliphatic and aromatic also 28.5, aromatic acids 30.0, and aromatic [illegible] They are greater than the [illegible]

does not affect the packing [illegible] absence of hydration, e.g., on Hg the [illegible] are identical. The difference in S of fatty acid, and their Ca and Ba soaps is due to the absence of hydration of the latter. 73 references. J. J. Bikerman

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

SCHWARTZ, Anthony M.; PERRY, James W.; TAUBMAN, A.B., doktor khimicheskikh nauk, redaktor.

[Surface active agents; their chemistry and technology] Poverkhnostnoaktivnye veshestva; ikh khimiia i tekhnicheskie primeneniia. Moskva, Izd-vo inostrannoi lit-ry, 1953. 544 p. (MLRA 7:2)
(Surface active agents)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBMAN, A., doktor khimicheskikh nauk; KORETSKIY, A., inzhener.

Emulsion method of cleaning petroleum product residues from petroleum tankers. Mor.i rech.flot 13 no.1:5-7 My '53. (MLRA 6:10)
(Tank vessels)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBMAN, A.B.

USSR/Miscellaneous

Card 1/1 : Pub. 124 - 11/24

Authors : Taubman, A. B., Dr. of Chem. Sc.; and Koretskiy, A. F.

Title : New method of scavenging petroleum tankers

Periodical : Vest. AN SSSR 9, 62-64, Sep 1954

Abstract : A new emulsion method of scavenging sea-going and river tankers, developed by specialists of the Sea and River Fleet of the USSR, is described. The basic operation consists in liquifying the thick viscous petroleum residue on bottom of the tanker and removal by a standard pump.

Institution : ...

Submitted : ...

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBMAN, A.B., doktor khimicheskikh nauk; NIKITINA, S.A.

Physical and chemical investigation of wetting agents used in dust catching. Bor'ba s sil. 2:61-70 '55. (MLRA 9:5)

1. Institut fizicheskoy khimii Akademii nauk SSSR.
(DUST--PREVENTION) (WETTING AGENTS)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBMAN, A.B.

"Introduction to the theory of flotation." V.I.Klassen, V.A.Mokrousov. Reviewed by A.B.Taubman. Koll.zhur.17 no.1:78-79 Ja-F '55. (MLRA 8:3)
(Flotation)(Klassen, V.I.)(Mokrousov, V.A.)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

SOV/124-58-11-13560

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 11, p 226 (USSR)

AUTHORS: Taubman, A.B., Venstrem, Ye.K.

TITLE: The Laws Governing the Effect of Surface-active Substances on the Creep of Metallic Single Crystals (Zakonomernosti vliyaniya poverkhnostno-aktivnykh veshchestv na polzuchest' metallicheskikh monokristallov)

PERIODICAL: V sb.: Tr. 3-y Vses. konferentsii po kolloid. khimii. 1953 g. Moscow, AN SSSR, 1956, pp 52-64

ABSTRACT: A clarification of the general laws governing the effect of surface-active substances on the deformation of metals in terms of the molecular properties and the chemical composition of the substances. Constant-load tests were performed on 0.5-1.0 mm diam single-crystal wire specimens made of tin and lead. The external medium consisted of solvents, such as octane, benzol, and water, and solutions therein of surface-active substances. In this investigation no application was made of measures for the complete removal of the oxide films, since the effect of the facilitation of deformations becomes apparent in the presence, as well as in the absence, of

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The Laws Governing the Effect of Surface-active Substances on the Creep (cont.)

such films. It was shown that the effect of the facilitation of deformations in metals attributable to surface-active substances essentially obeys the standard laws of adsorption which characterize the adsorption of such substances on liquid interfaces.

A. I. Yatsyuk

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755120007-3

TAUBMAN, A. B.

The [illegible] of [illegible] factors in the interaction of dust particles with drops of solutions of surfactants. A. B. Taubman and S. A. Nikitina. *Doklady Akad. Nauk S.S.S.R.* 110, 609-12 (1956).—The dust-collecting ability of water and surfactant solns. was evaluated in a special app. by detg. nephelometrically the turbidity of dust suspensions resulting after contact of the suspended dust particles with a [illegible] in the dust-laden space. Quartz dust, up to 30 μ, and [illegible] dust, up to 5 μ in size, were settled with atomized water droplets contg. polyethylene glycols of alkylated phenols, Aerosol OT, tech. grade of sulfonol, isoamyl, 0.01% $CaCl_2$ soln., and alkylarylsulfonates. The results appear to indicate that the imperfect contact of the dust particles with water is not due to the air flowing around the water droplets but to the difficulties of wetting the solid surfaces and to the dynamic conditions during the brief contacts of dust with the droplets. The adsorption layer of the wetting agents has a hydrophilizing effect upon the solid particles and facilitates their contact with the liquid; this assures a better dust pptn. W. M. Sternberg

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